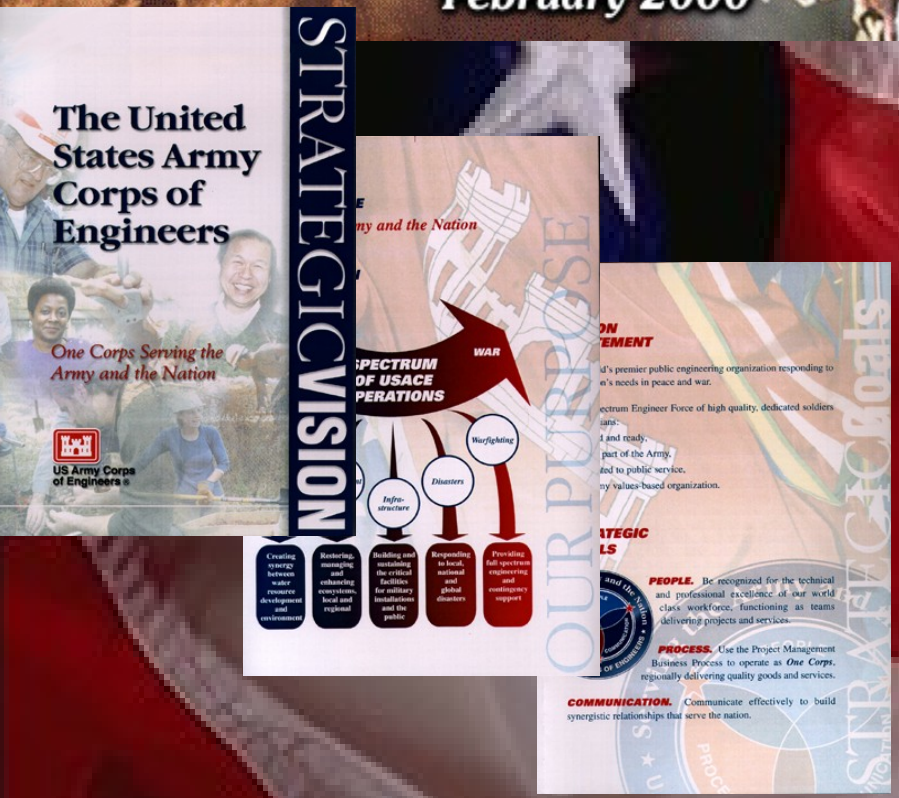
The Army Vision

Soldiers on Point for the Nation

Persuasive in Peace, Invincible in War

February 2000


The United States Army Corps of Engineers
One Corps Serving the Army and the Nation
US Army Corps of Engineers
STRATEGIC VISION
SPECTRUM OF USACE OPERATIONS
WAR
Warfighting
Disasters
Infra-structure
Creating synergy between water resource development and environment
Restoring, managing and enhancing ecosystems, local and regional
Building and sustaining the critical facilities for military installations and the public
Responding to local, national and global disasters
Providing full spectrum engineering and contingency support
OUR PURPOSE
PEOPLE. Be recognized for the technical and professional excellence of our world class workforce, functioning as teams delivering projects and services.
PROCESS. Use the Project Management Business Process to operate as One Corps, regionally delivering quality goods and services.
COMMUNICATION. Communicate effectively to build synergistic relationships that serve the nation.
STRATEGIC Goals

USACE Welcomes

The Honorable Paul M. Parker, Assistant Secretary of The Army, Civil Works

10 October 2001

Engineers on point for the Army and the Nation!

Agenda

- Global Engagement - USACE Operations Update
- MACOM Organization Overview
- Terrain Walk - Mission Areas in Support of The Army and the Nation
  - Civil Works
  - Military Programs
  - Interagency & International Support
  - Research & Development
- Support to Army Transformation
- Vignettes
- Discussion

Vision Statement

The world's premier public engineering organization responding to our Nation's needs in peace and war

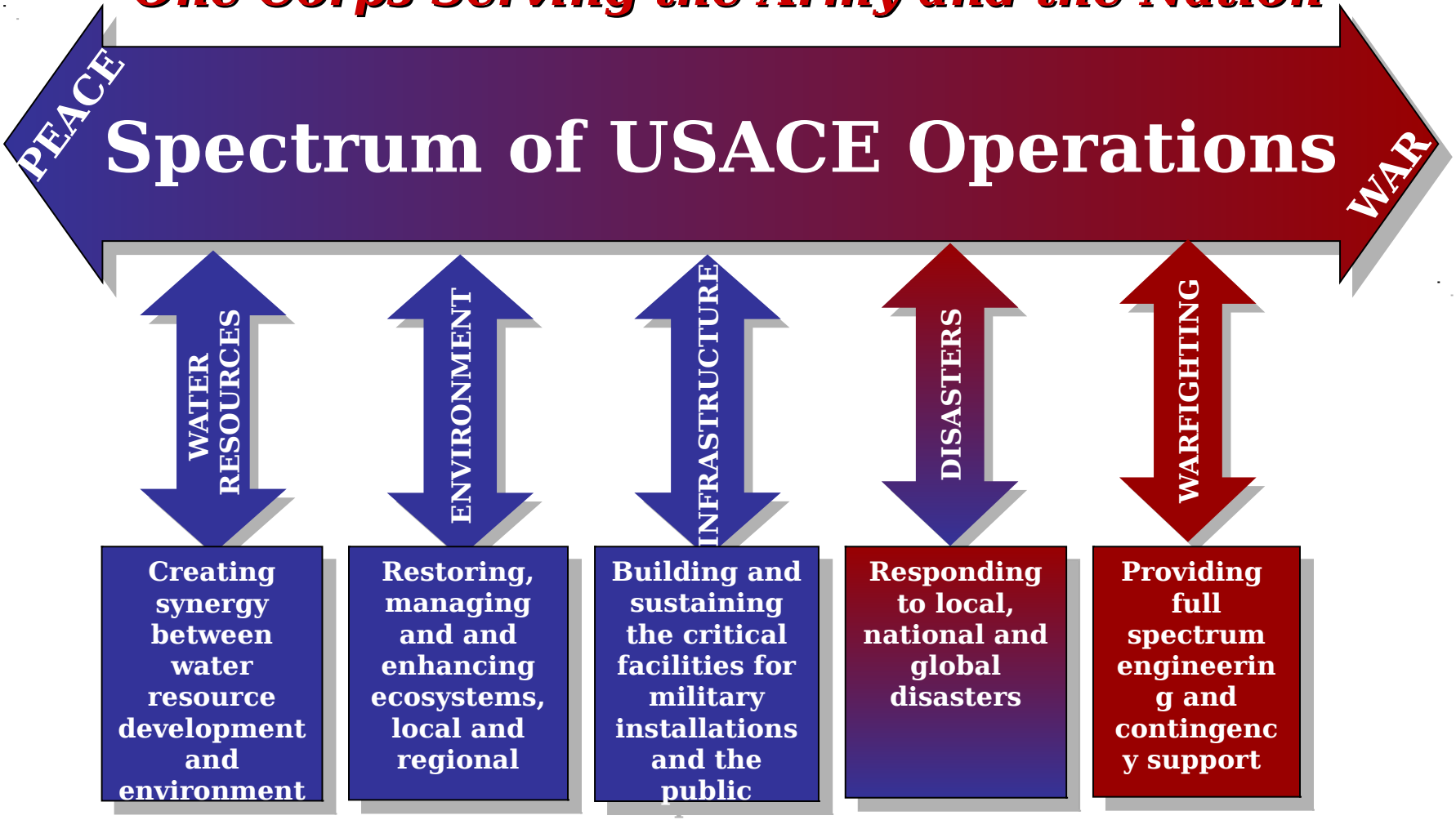
A full spectrum engineer force of high quality, dedicated soldiers and civilians:

- **Trained and Ready**
- **Vital Part of The Army**
- **Dedicated to Public Servic**
- **Army Values-Based**

The US Army Corps of Engineers

USACE Operations

One Corps Serving the Army and the Nation


PEACE
Spectrum of USACE Operations
WAR
WATER RESOURCES
ENVIRONMENT
INFRASTRUCTURE
DISASTERS
WARFIGHTING
Creating synergy between water resource development and environment
Restoring, managing and and enhancing ecosystems, local and regional
Building and sustaining the critical facilities for military installations and the public
Responding to local, national and global disasters
Providing full spectrum engineering and contingency support

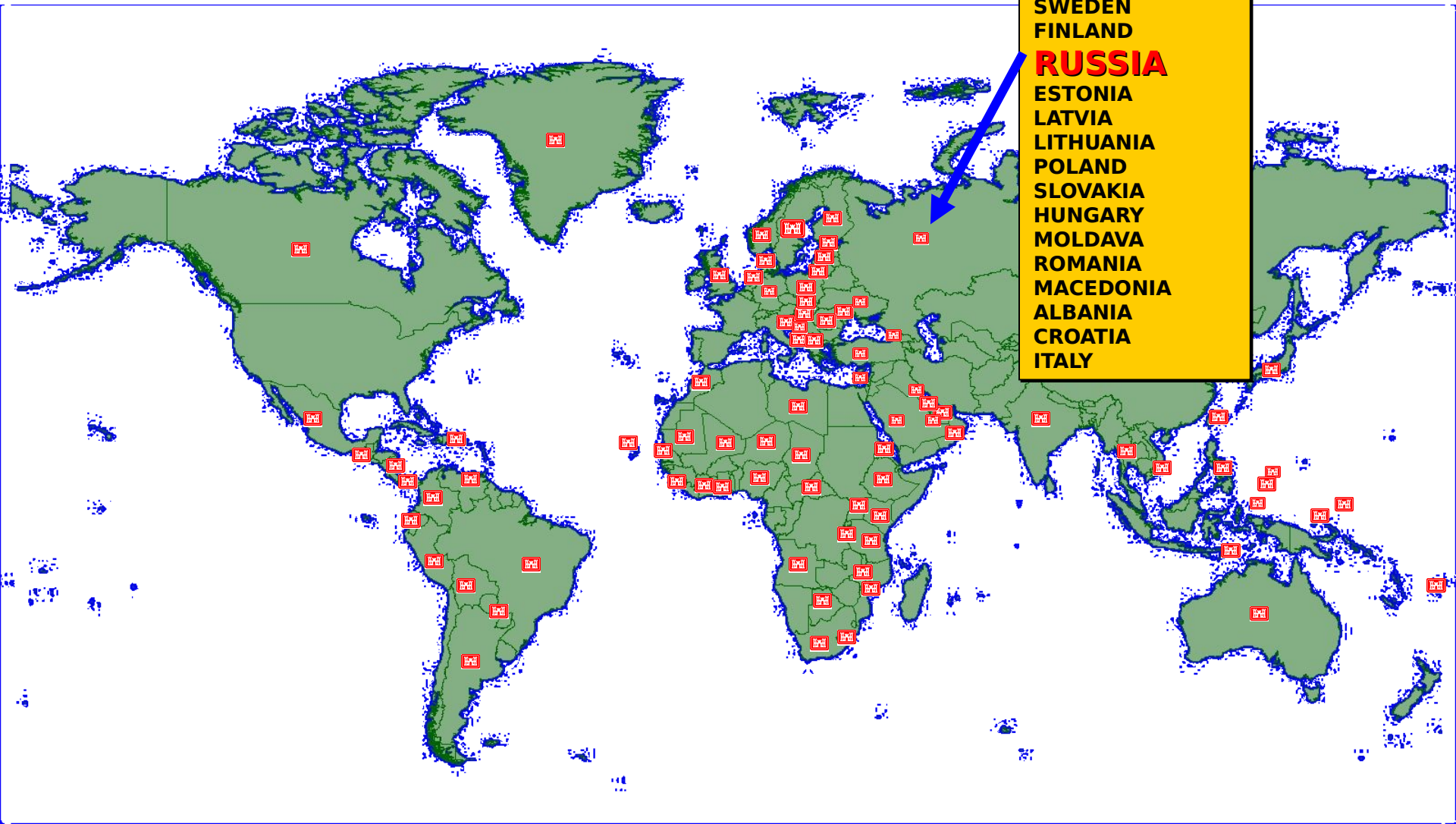
Global Engagement

Construction Support

Global Engagement

Construction Support

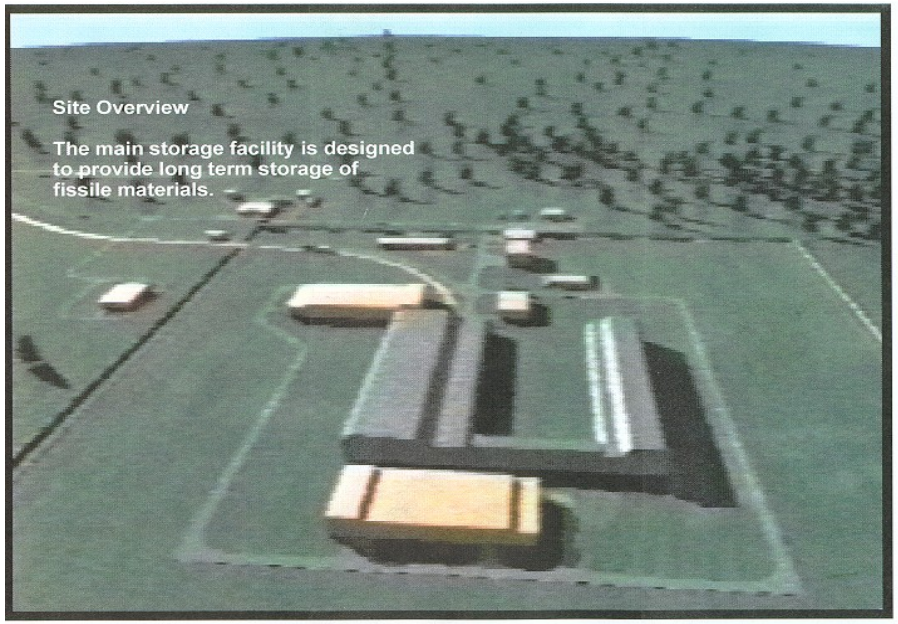
EUROPE
UNITED KINGDOM
NETHERLANDS
DENMARK
NORWAY
SWEDEN
FINLAND
RUSSIA
ESTONIA
LATVIA
LITHUANIA
POLAND
SLOVAKIA
HUNGARY
MOLDAVA
ROMANIA
MACEDONIA
ALBANIA
CROATIA
ITALY



Cooperative Threat Reduction

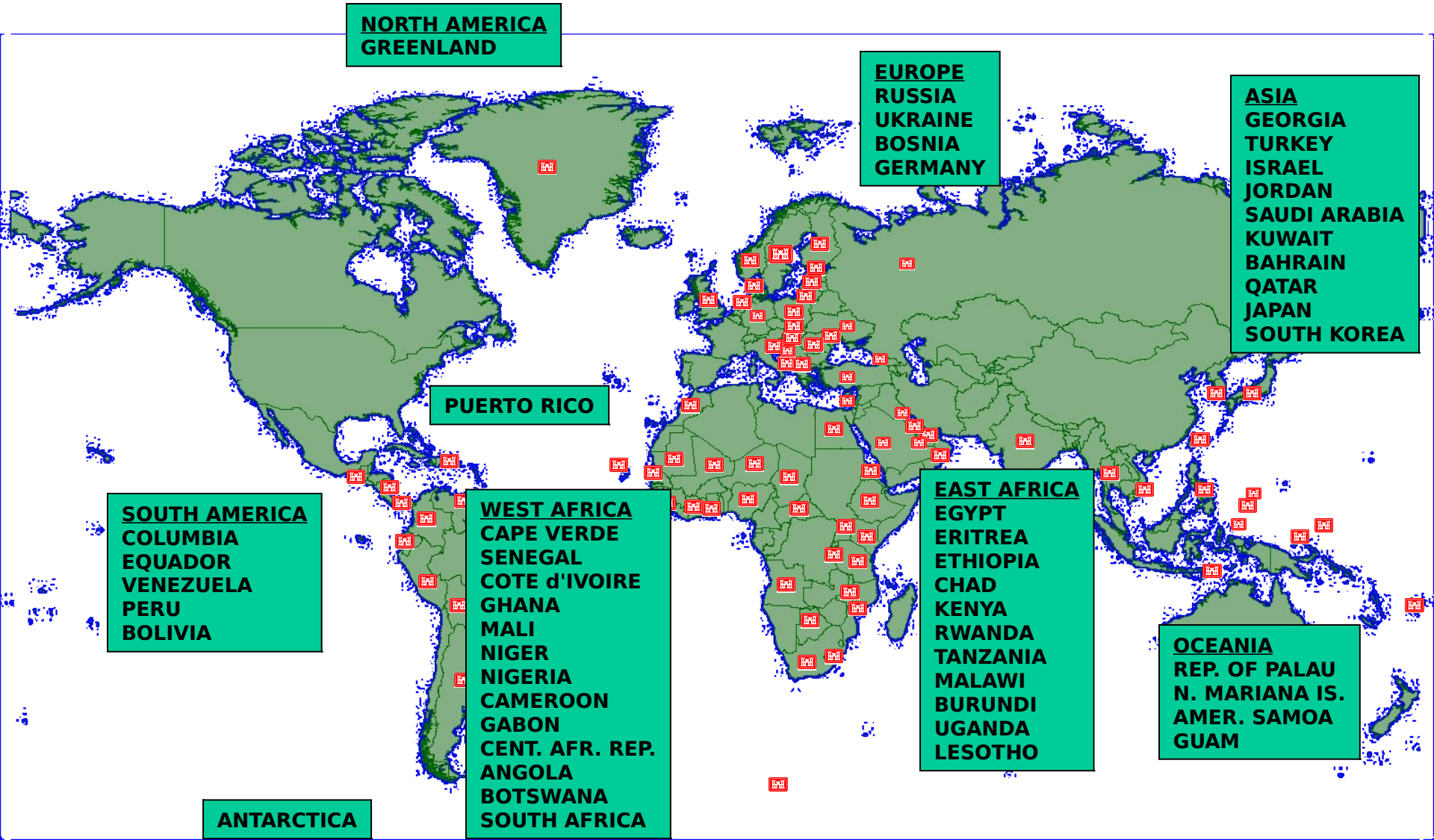
Officer Housing
(Ukraine, Belarus) $50M (U.S. only)

Fissile Materials Storage Facility
(Mayak, Russia) $630M (U.S. only)



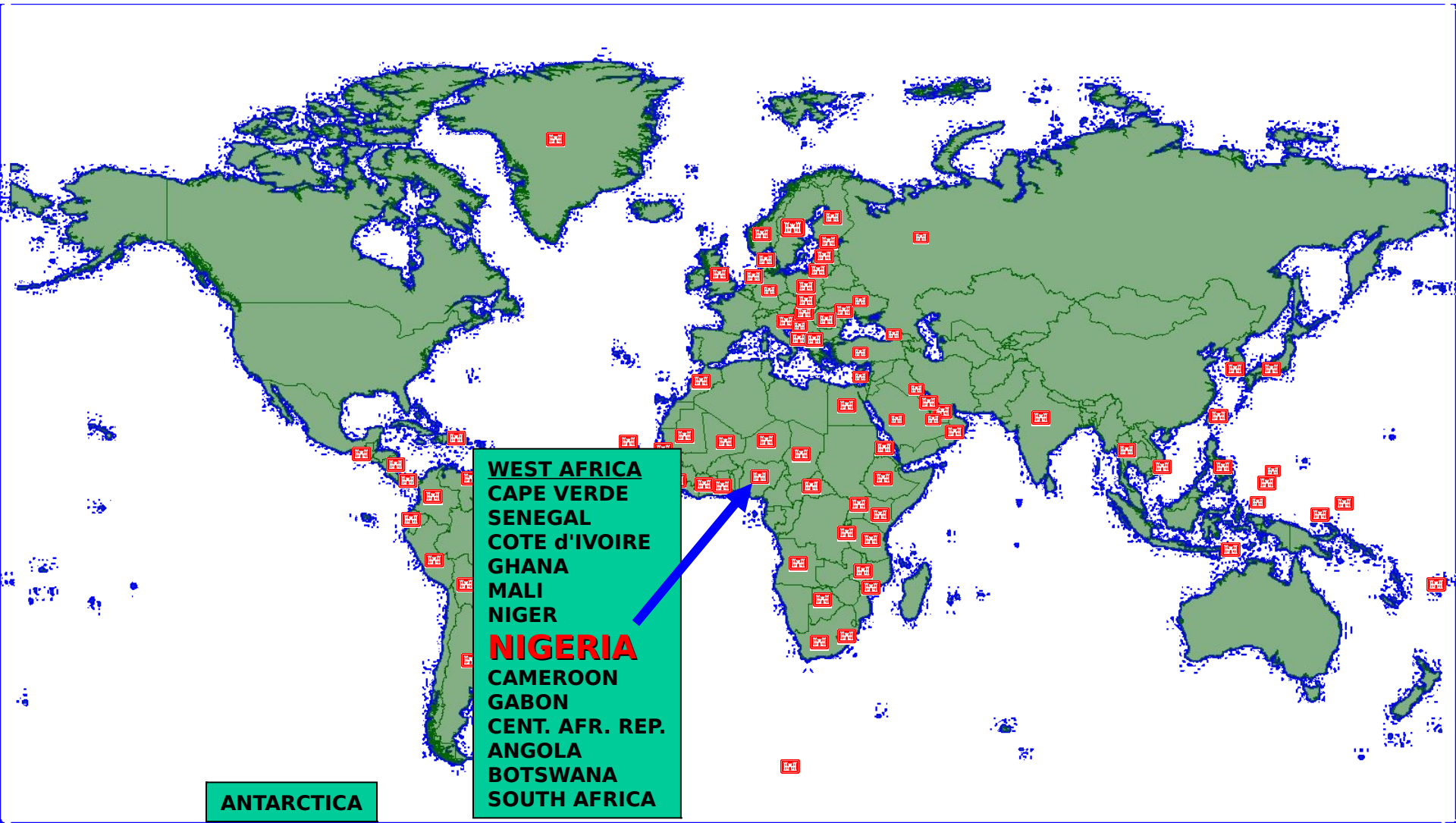
Global Engagement

Technical Assistance



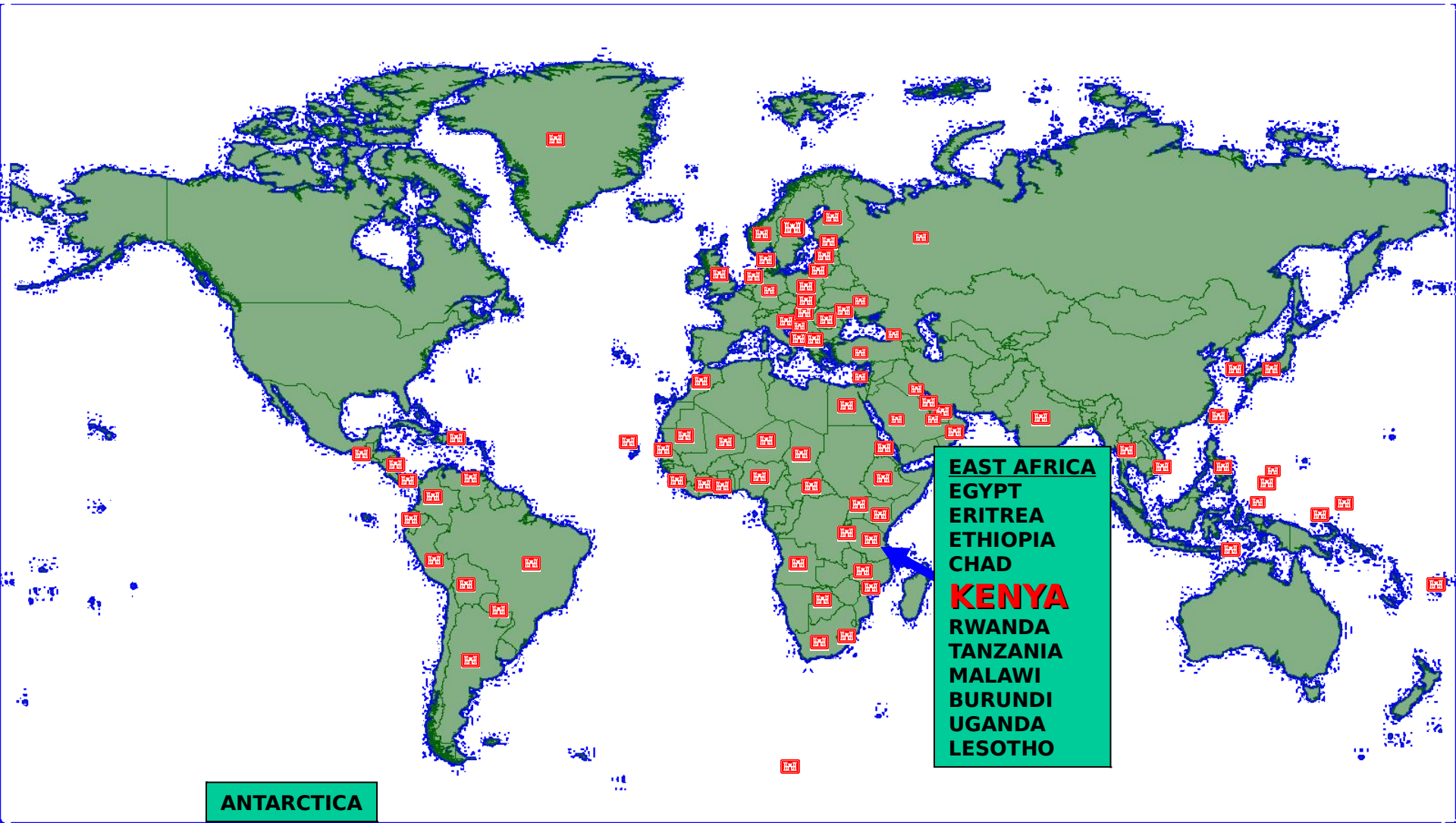
Global Engagement

Technical Assistance



Global Engagement

Technical Assistance

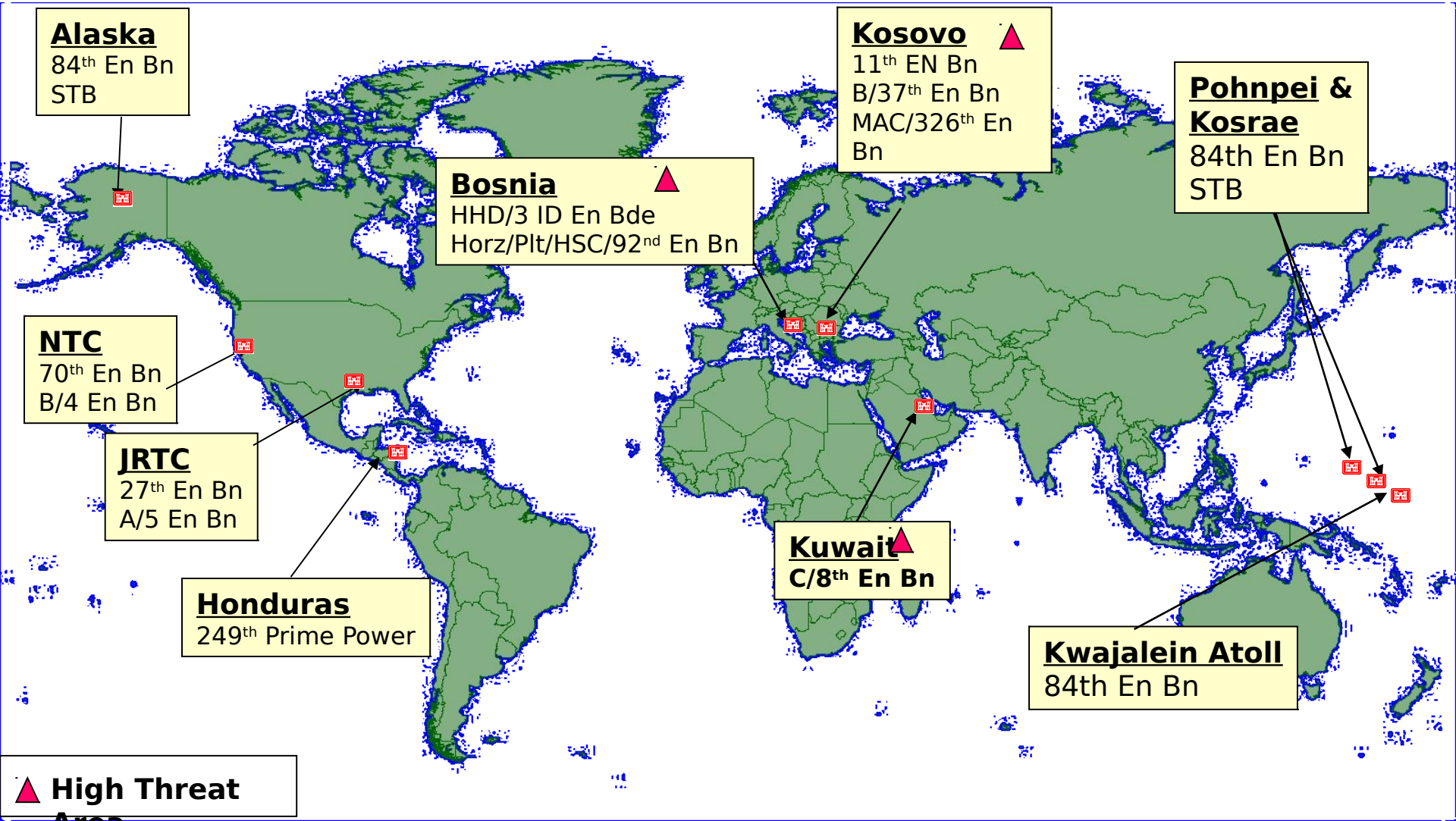


Global Engagement

Kenyan AIDS Clinic

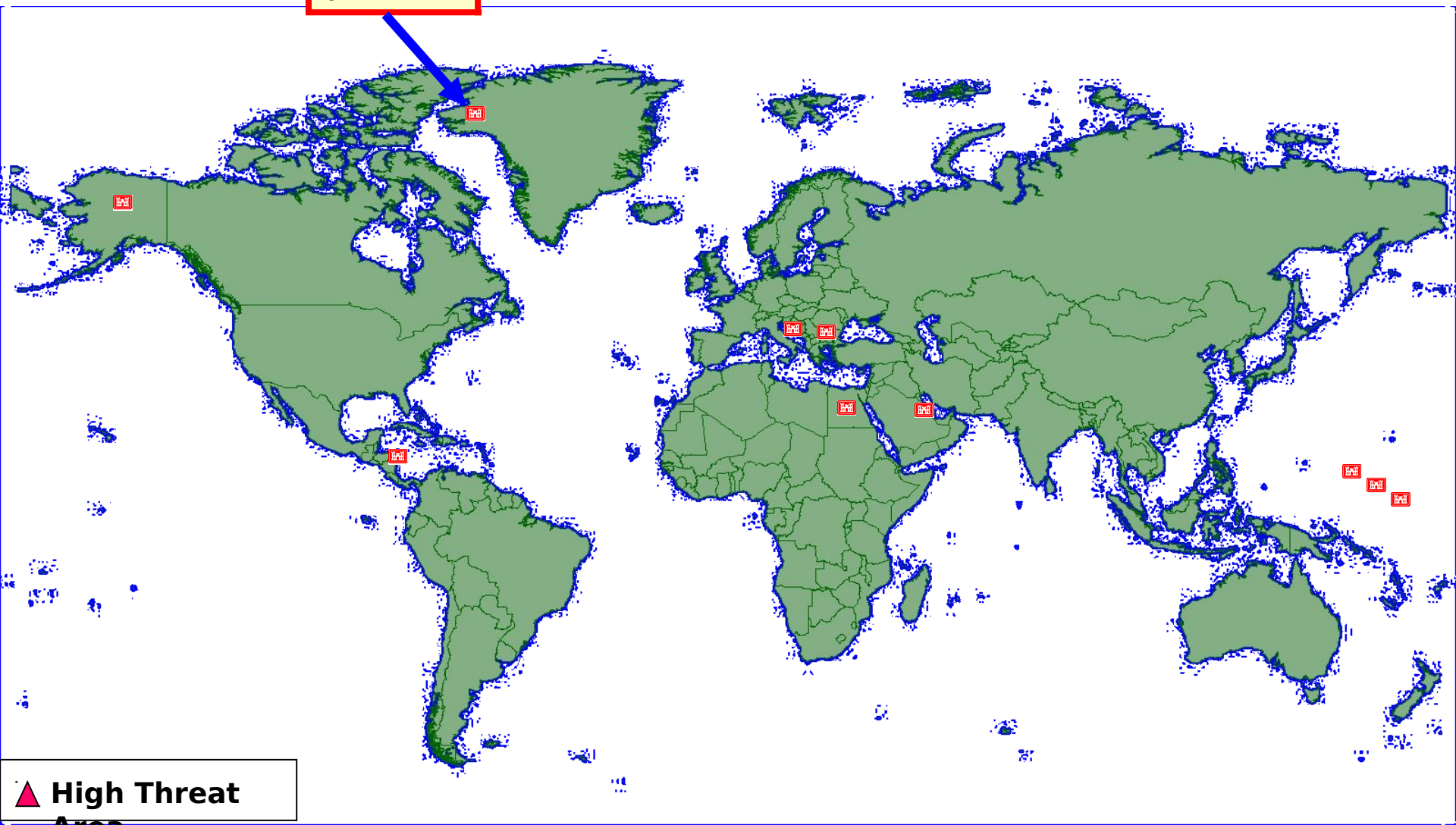
Global Engagement

Active Duty
Engineer Unit Deployments
As Of 10 Oct 01



Global Engagement

Active Duty
Engineer Unit Deployments
As Of 10 Oct 01



The Washed Away Bridge
9 August, 2001

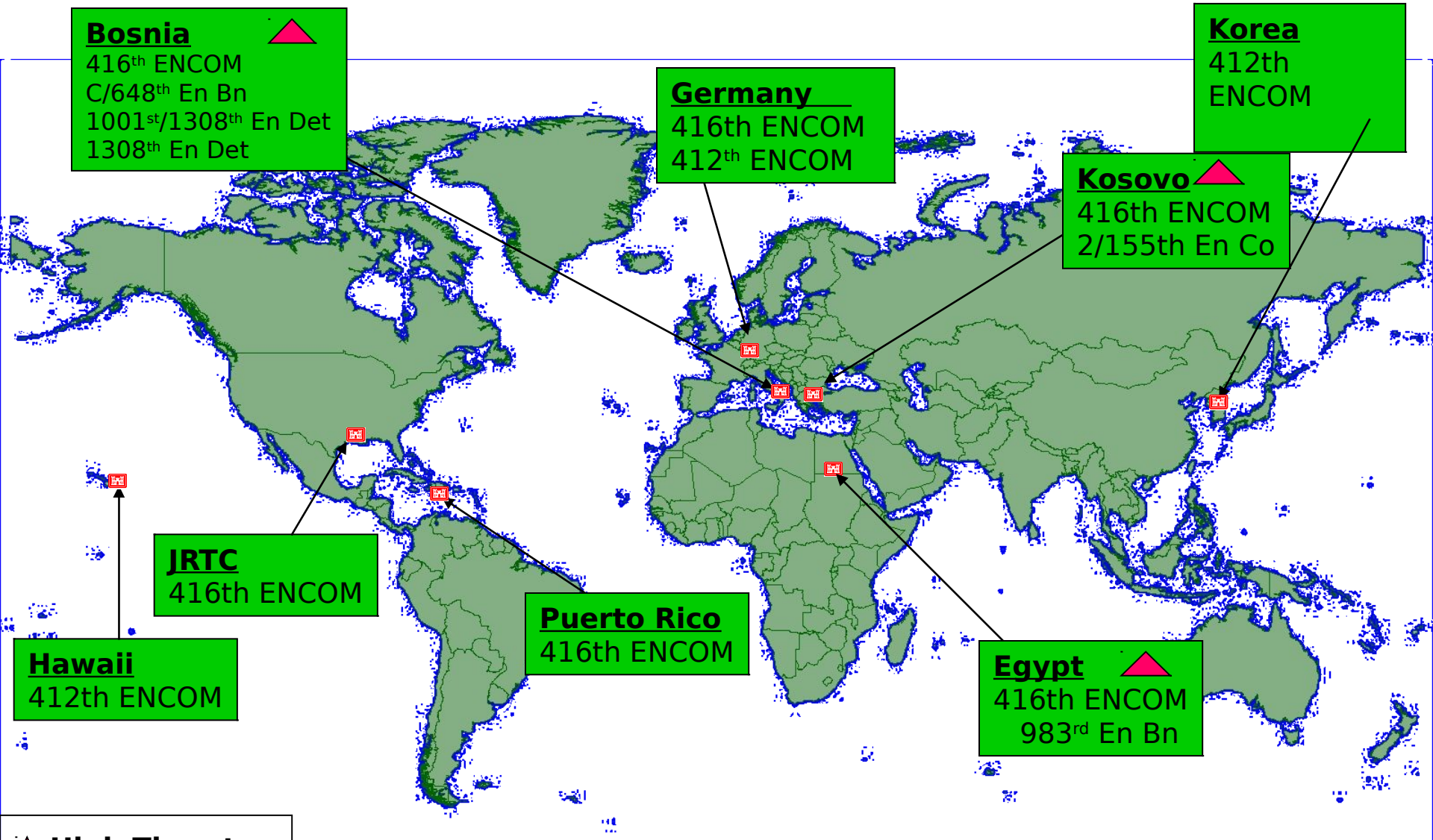
Getting Ready
10 August, 2001

In Progress
1600/12 August, 2001

Testing Complete
1930/12 August, 2001

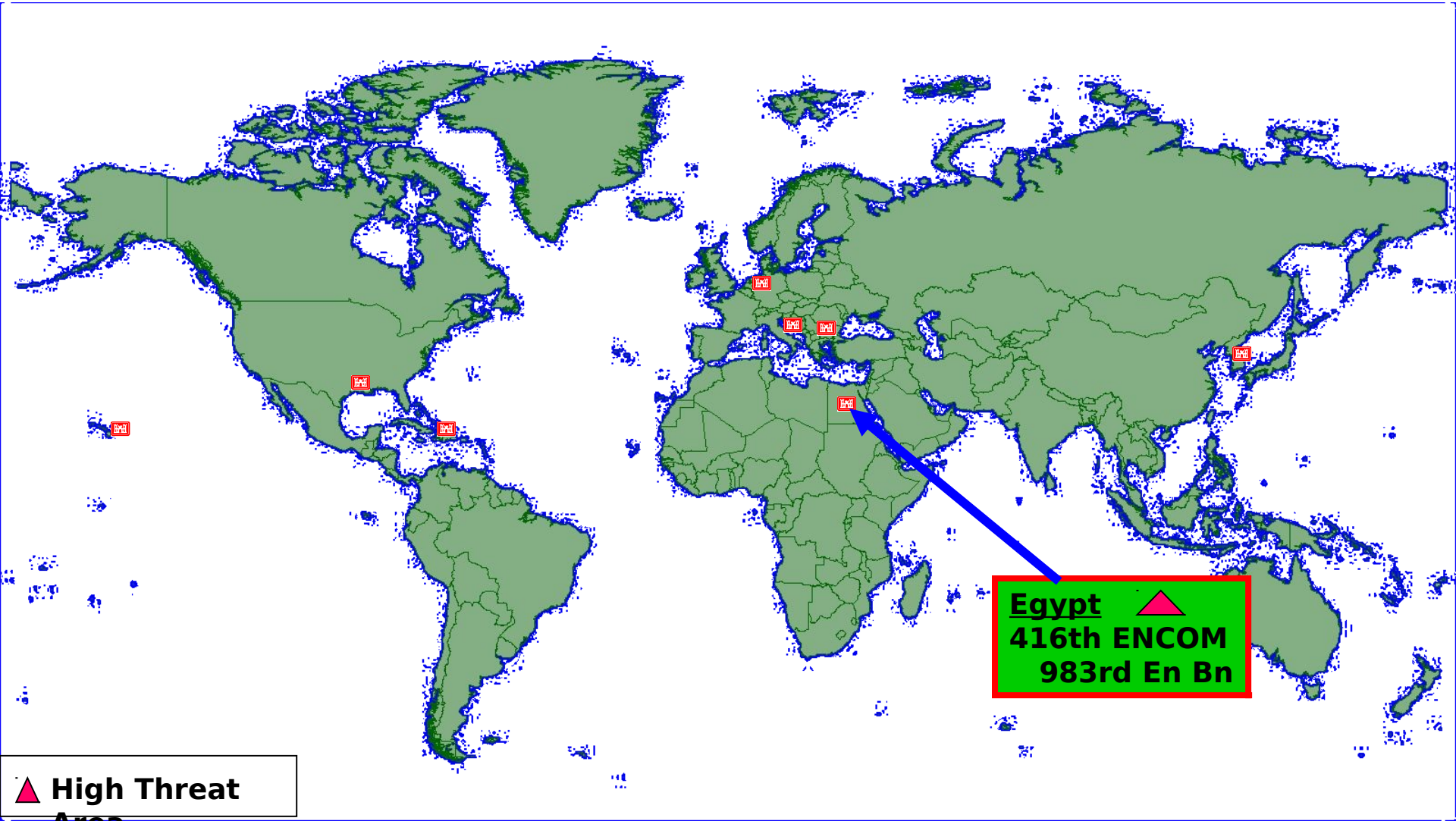
Global Engagement

Reserve/NG Engineer Unit Deployments
As Of 10 Oct 01



Global Engagement

Reserve/NG Engineer Unit Deployments
As Of 10 Oct 01



Engineer Unit Deployments – 249th Prime Power Battalion

5000-man Base Camp, Operation Bright Star

The World of the Chief of Engineers

Dual Roles

Chief of Engineers, Army Staff

Commander, U.S. Army Corps of Engineers

The World of the Chief of Engineers

Authorities

- **Statutes establishing the Duties of the Chief of Engineers** (not inclusive).

- CoE is designated as the **Chief of the Engineer Branch** under Title 10 U.S.C., Sec 3036.

- **Military construction** shall be carried out under the direction and supervision of the SecArmy, acting through the CoE under Title 10 U.S.C., Sec 2851.

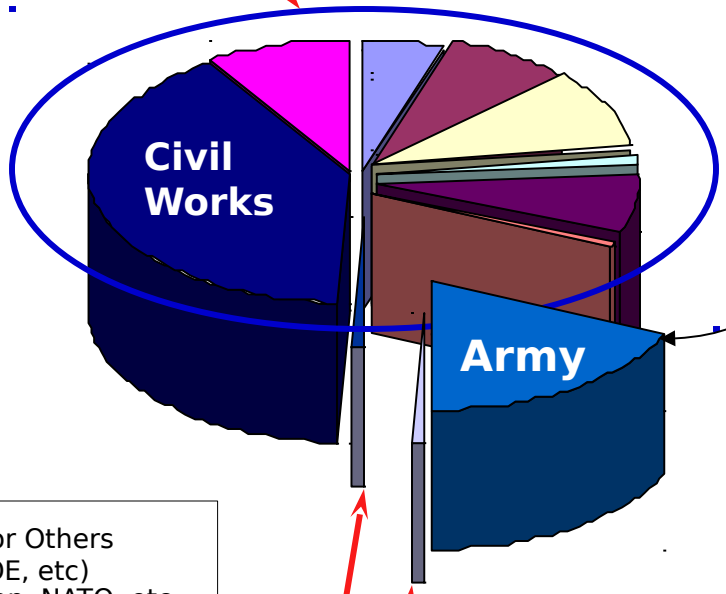
- **Navigation and flood control** projects must be executed under the direction of the SecArmy and supervision of the CoE, unless specified otherwise by law, codified under Title 33, U.S.C, sec 540 & 701b.

- **CW emergency authorities** permit the CoE to expend funds in support of preparation for and in support of flood fighting, rescue operations, flood control, repair and restoration of flood protection, emergency dredging, and provide emergency supplies of clean water under PL 84-99

USACE Budget

FY01 Program

Controlled by other than ARB



- Support for Others (EPA, DOE, etc)
- Host Nation, NATO, etc
- DOD Agencies
- Other (Engr, R&D, NAF, etc)
- Air Force
- Foreign Military Sales
- Army Direct
- USACE Mil Operating Funds
- Civil Works
- Army Reimbursable

Army Resources Board Controlled (19%)
MCA, BRAC, AFH, RDT&E, etc
OMA (DERP, RE)

USACE Operating Funds
- **HQUSACE + FOAs**
- **8 Division HQ**

$111 M OMA
$152 M GE
$263 million

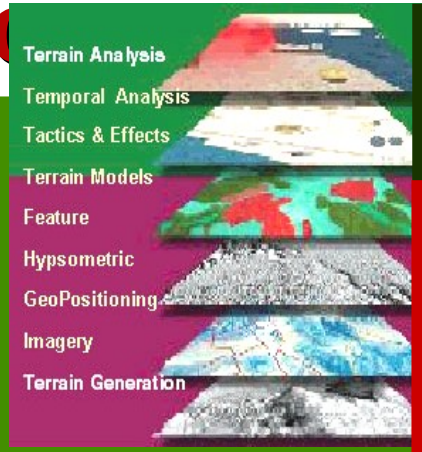
$6.2 B - Civil
$7.9 B - Military
$14.1 B – Total*

*** Includes Supplemental Fund**

Support to the Army and the Nation

Military Programs

- Military construction
- Base operations
- Environmental restoration
- Geospatial Engineering



Research & Development

- Military engineering
- Terrain & Geospatial
- Installations & Environment
- Water Resources

Real Estate

- Acquire, manage & dispose
- DOD recruiting facilities
- Contingency operations

Interagency

- DOD, Federal
- State & Local
- International

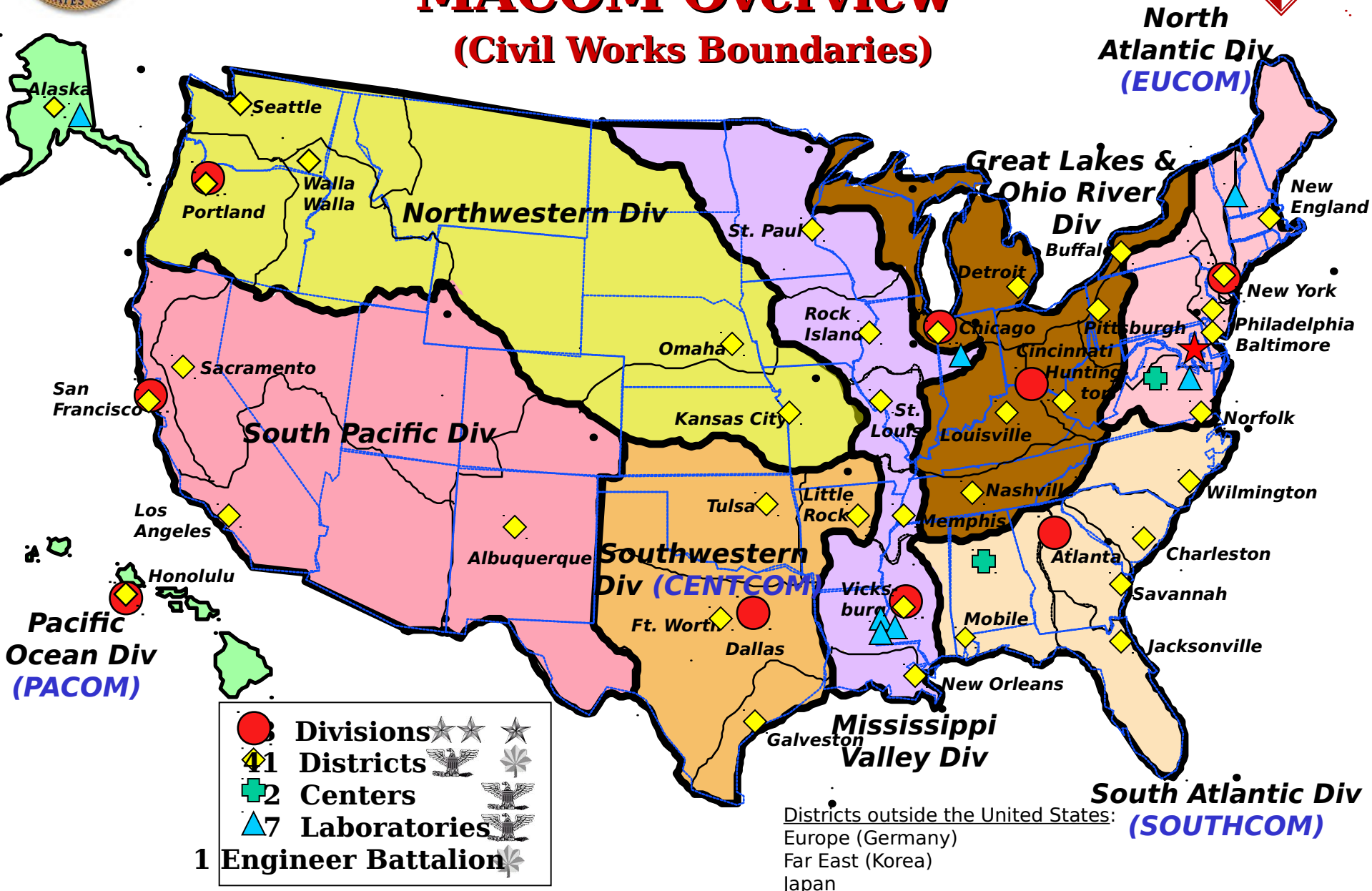
Civil Works

- Navigation, Shore Protection
- Flood control, Hydropower
- Disaster response
- Environmental

USACE Terrain Walk

MACOM Overview

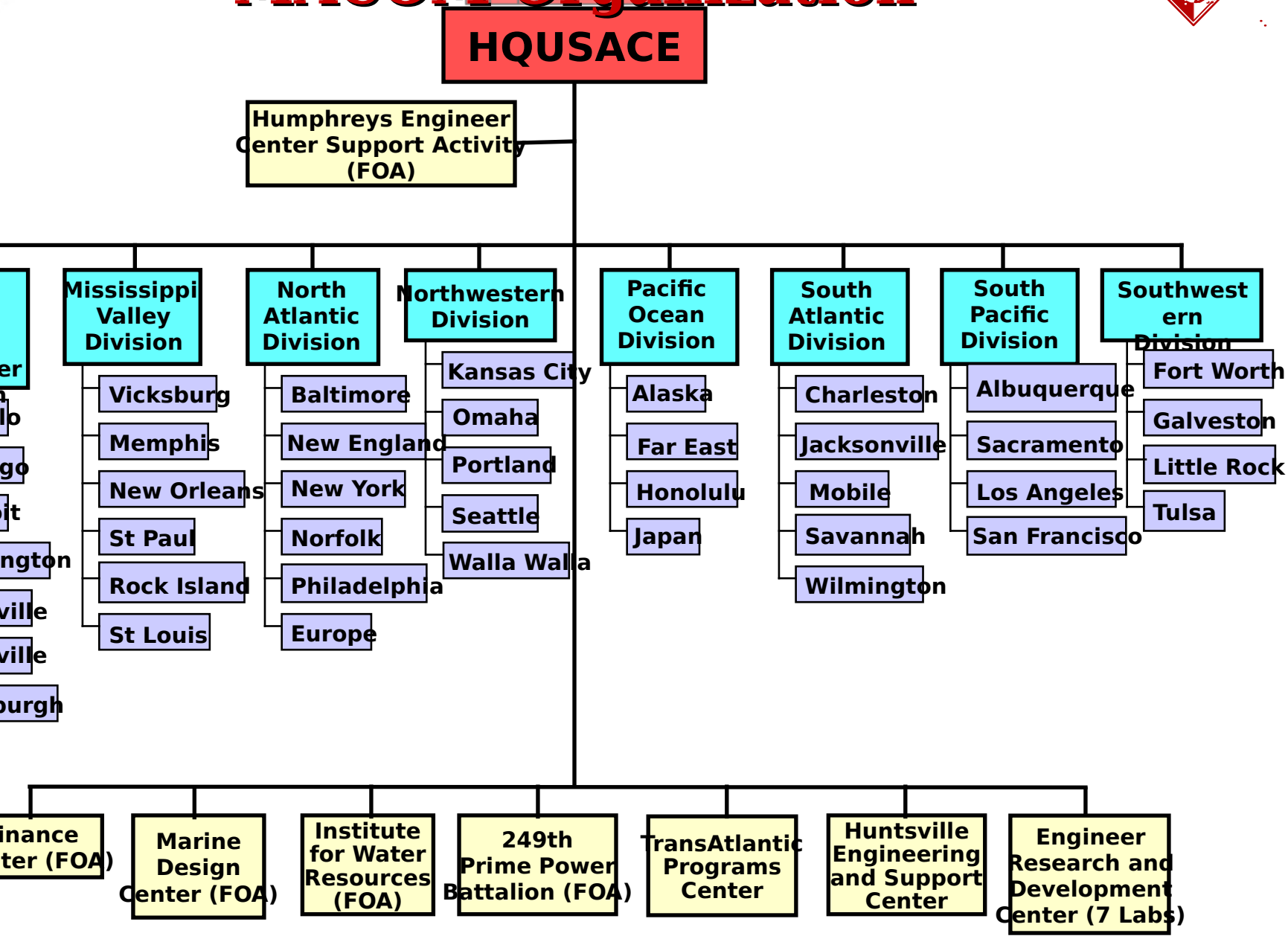
(Civil Works Boundaries)



Districts outside the United States:
Europe (Germany)
Far East (Korea)
Japan

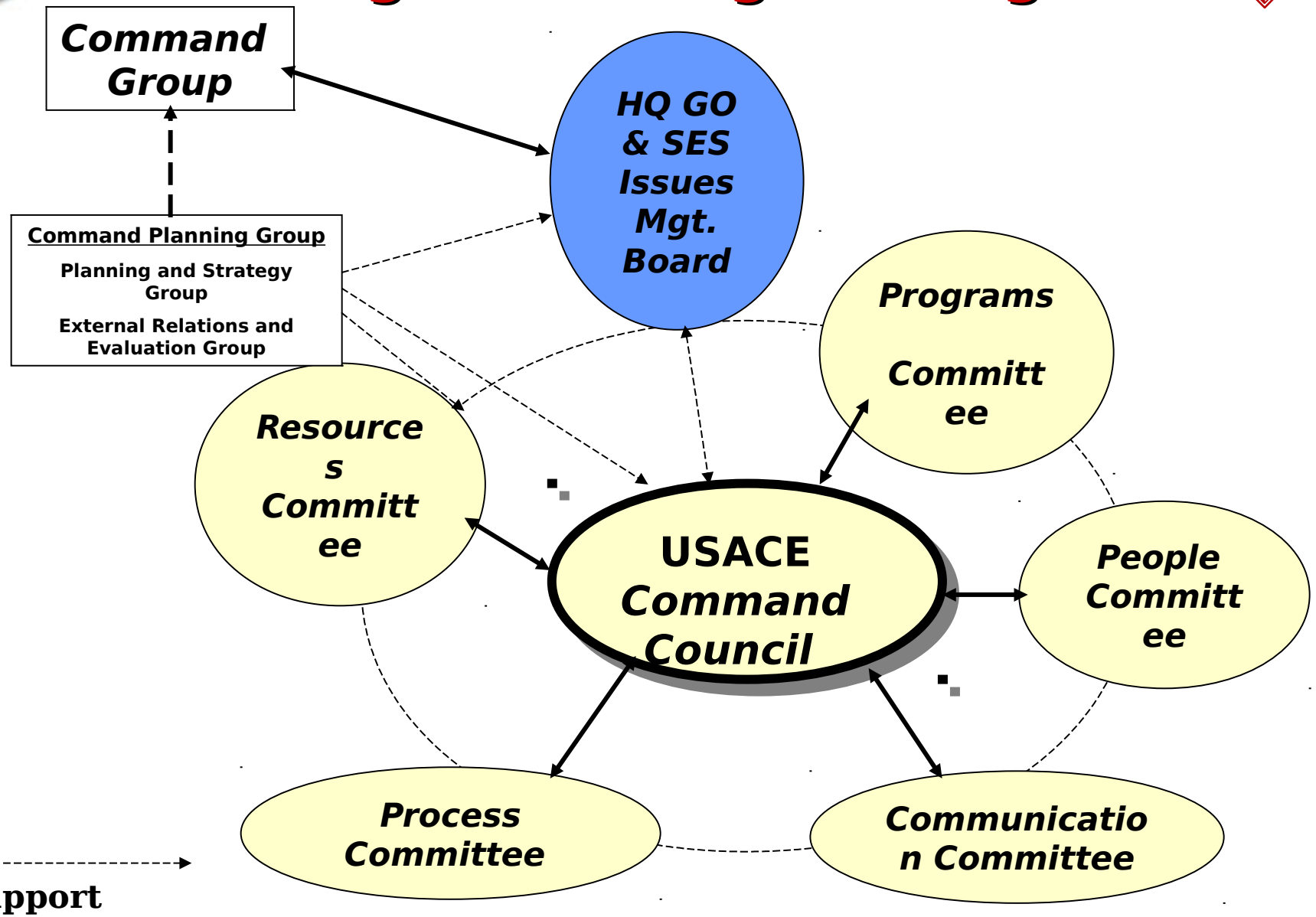
USACE Terrain Walk

MACOM Organization



Support to the Army and the Nation

Strategic Planning Redesign



USACE Terrain Walk

South Atlantic Division

MG Phillip R. Anderson

Commander

Personnel

4,200 Employees
8,000 Contractor Personnel

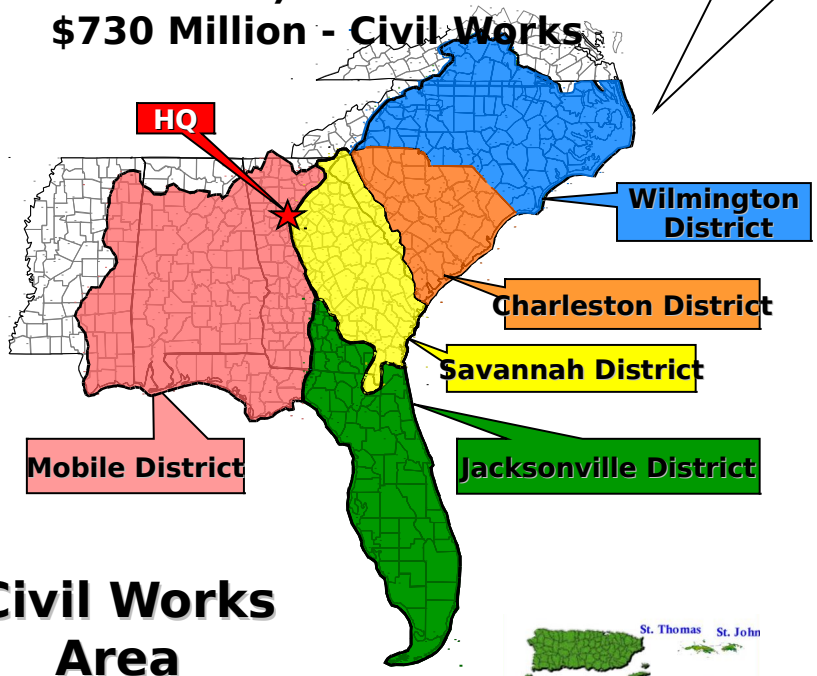
100 Congressional Delegates

16 Senators
84 Representatives

Annual Program: $1.38 Billion

$650 Million -- Military Programs (Projects on 15 Army and 16 Air Force installations)

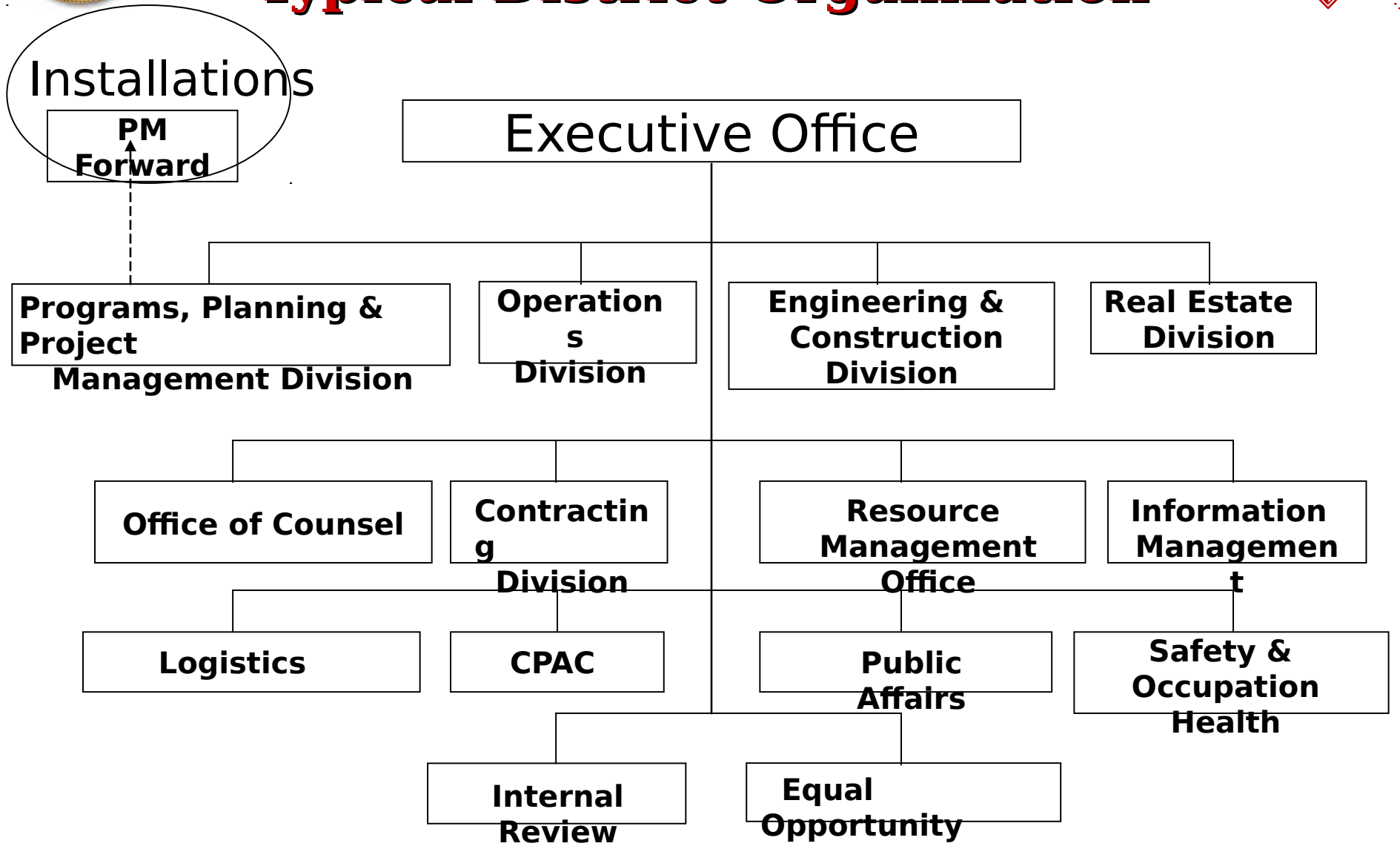
$730 Million - Civil Works



Civil Works Area

USACE Terrain Walk

Typical District Organization



USACE Terrain Walk

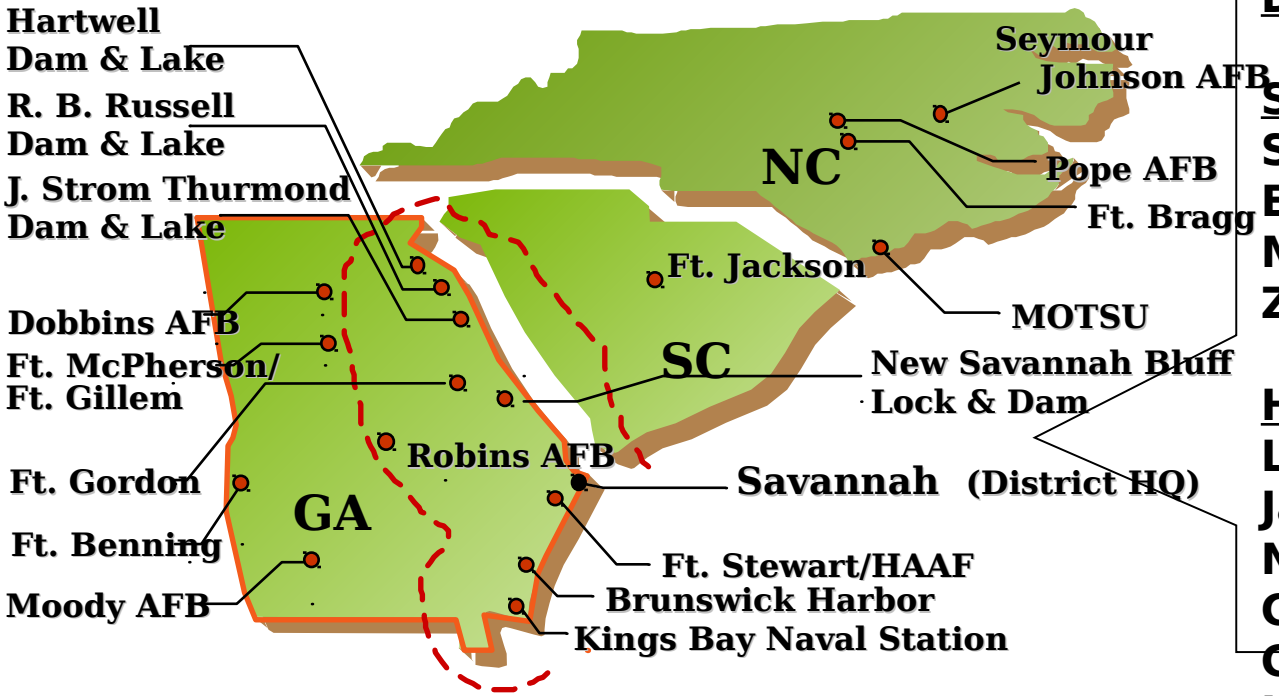
Savannah District

COL Roger A. Gerber
Commander

930 Personnel

Annual Program: $466 million

- $380M -- Military Programs (110 projects on 7 Army and 5 Air Force installations)
  - Army -- $714 M under construction
  - Air Force -- $170 M under construction
- $75M - Civil Works (15 projects)
- $21M - Environmental Programs



9 Congressional Delegates

Senate

Strom Thurmond (R-SC)
Ernest Hollings (D-SC)
Max Cleland (D-GA)
Zell Miller (D-GA)

House

Lindsey Graham (R-3-SC)
Jack Kingston (R-1-GA)
Nathan Deal (R-9-GA)
Charlie Norwood (R-10-GA)
John Linder (R-11-GA)

USACE Terrain Walk

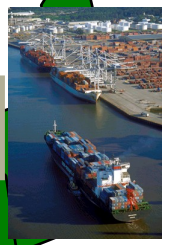
Civil Works Program Activities

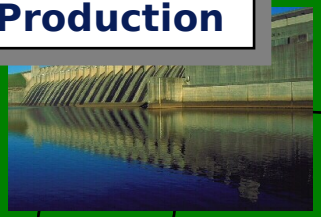
627 Shallow Draft Harbors

¼ of Nation's Hydropower Production

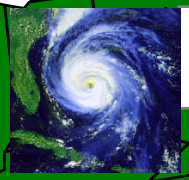
383 Major Lakes & Reservoirs 376 M Visitors/yr

299 Deep Draft Harbors



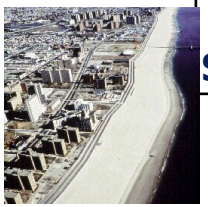


11,000 miles Inland Waterways



Emergency Operations

400 miles Coastal Structures

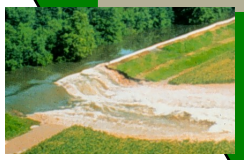


4340 Recreation Areas

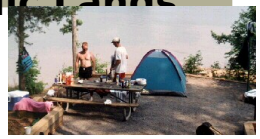
276 Locks

$500M Annual Dredging Costs

8500 Miles of Levees



11.7 Million Acres Public Lands



Environmental Stewardship

Regulatory Responsibilities

- ✓ *US Ports & Waterways convey > 2B Tons Commerce*
- ✓ *Foreign Trade alone Creates > $160 B Tax*

Support to the Army and the Nation

Leveraging Civil Works Capabilities

Development & Management of Water Resources Infrastructure

Protection, Restoration & Management of the Environment

Disaster Response & Recovery

Engineering & Technical Services

Support to the Army and the Nation

Emergency Response to TS Allison, June 2001

9 June:

TS Allison delivers 20” in 4 days

- **22 flood related fatalities**
- **27,000 homes impacted**
- **30,000 request for assistance**
- **Federal Disaster declared**

USACE RESPONSE

- **Designed/planned temporary housing**
- **Emergency power generators at Texas Medical Center**
- **Contingency power to Hermann Memorial**

Vignettes - Support to the Nation

Sustaining and Building Relationships:

- ***Larry Keller*, Executive Director, Los Angeles Port Authority**
- ***Mayor Susan Savage*, City of Tulsa**
- ***Mayor Pat Hayes*, City of North Little Rock**

Vignettes - Support to the Nation

LA Port Authority Director

Vignettes - Support to the Nation

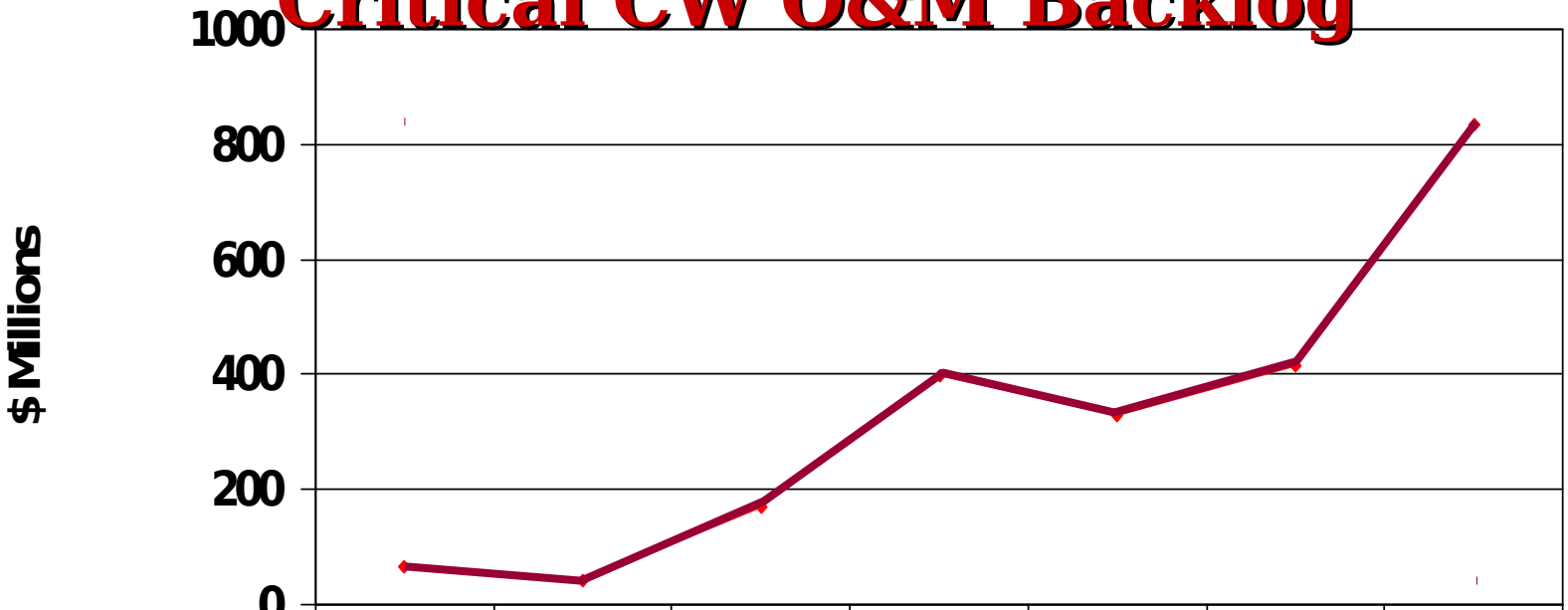
Mayor, Tulsa, Oklahoma

Vignettes - Support to the Nation

Mayor, North Little Rock, Arkansas

Support to the Army and the Nation

Critical CW O&M Backlog



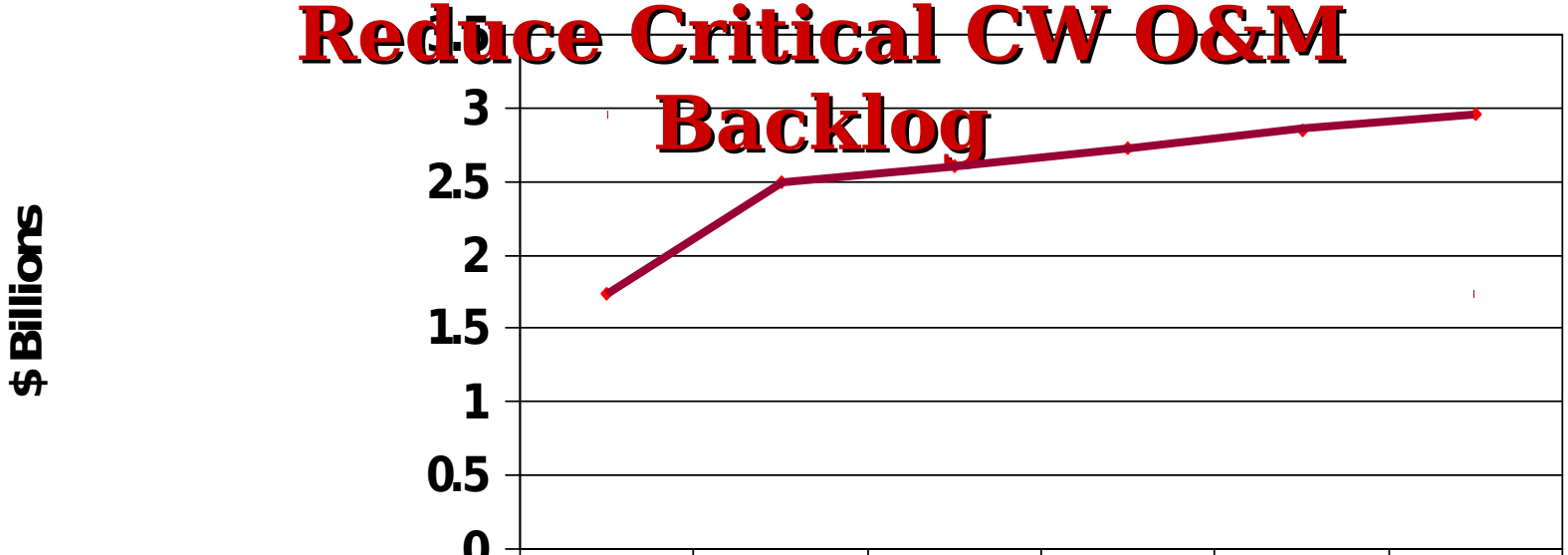
	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02
Backlog	67	42	171	399	329	415	835

USACE O&M Backlog Summary:

- FY02 President's Budget of $1.74B for Corps O&M reflects a critical backlog of $835M.
- This backlog is an increase of $420 from FY01.
- Backlog consists of unfunded work needed to preserve the integrity of Civil Works projects and ensure their continued operability.
- Delays in O&M work will result in more extensive and costly repairs when the work is eventually performed.
- This critical backlog does not include $1B worth of unfunded work that is also required but is not critical.

Support to the Army and the Nation

Required Funding to Reduce Critical CW O&M Backlog



	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
Required Funding Stream	1.735	2.495	2.607	2.724	2.847	2.957

USACE Strategy to Correct the Problem:

- **Two Components:**
  - Pursue efficiencies in O&M procedures, thereby reducing costs.
  - Convince budget policy makers that increased funding for water resources O&M is essential to the economic well being of the Nation.
- **Goal: Reduce the critical backlog to $0 over the next 5 years.**

Support to the Army and the Nation

Military Program Activities

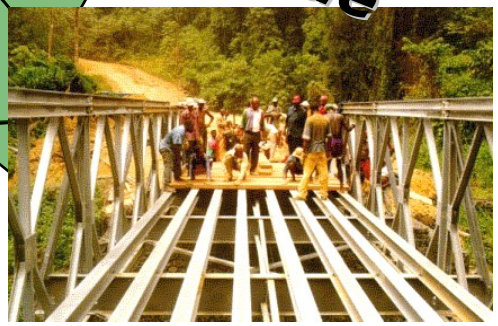
"To provide engineering, construction, and environmental management services for the Army, Air Force, other assigned U.S. Government agencies, and foreign governments."

Army

U.S. Government Agencies

Air Force

Foreign Govt's Worldwide



Support to the Army and the Nation

Major Military Programs

MILCON

- Working and Living Facilities for Soldiers and Airmen
- National Missile Defense
- Army Transformation
- Chemical Demilitarization
- Foreign Military Sales
- Department of Defense Medical

INTERAGENCY & INTERNATIONAL SUPPORT

- DC Public Schools
- Cooperative Threat Reduction
- Africa and Latin America
- Superfund (EPA)

ENVIRONMENTAL

- Base Realignment & Closure
- Installation Restoration Program
- Formerly Used Defense Sites
- Formerly Utilized Sites Remedial Action Program
- Environmental Quality

INSTALLATION SUPPORT

- Master Planning and Real Property Inventory
- Residential Communities Initiative
- DPW Automation
- Strategic Sourcing

Plus: Contingency Support

Support to the Army and the Nation

Environmental Initiatives

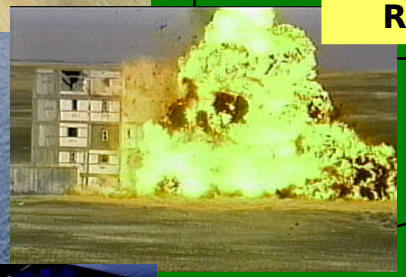
- Environmental Advisory Board
- Environmental Operating Principles
- USACE Environmental Doctrine

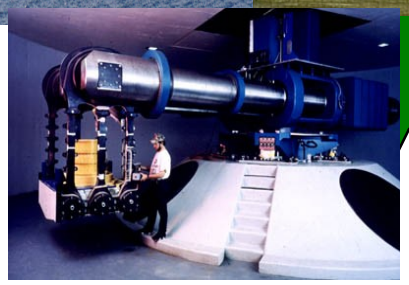
Support to the Army and the Nation

Engineer Research and Development Center

7 Unique Labs

- 2014 Employees
- 1029 Scientists & Engineers
  - 533 Master's Degrees
  - 266 Doctorate Degrees
- $1.2 Billion in Research Facilities & Equipment
- $568 Million Annual Program





Cold Regions Research Engineering
Hanover, NH

Construction Engineering Research Laboratory
Champaign, IL

Topographic Engineering Center
Alexandria, VA

Coastal and Hydraulics Laboratory
Environmental Laboratory
Geotechnical and Structures Laboratory
Information Technology Laboratory
Vicksburg, MS

Support to the Army and the Nation

Leveraging Technical Engineer Capabilities

Tactical Military Hydrology

Contingency Airfields

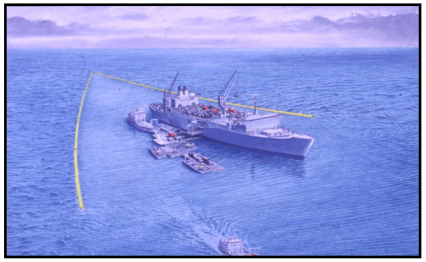
Utility Assessment and Repai

Cold Regions Theater of Operations Engineering

Base Camp Construction, Protection & Survivabilit

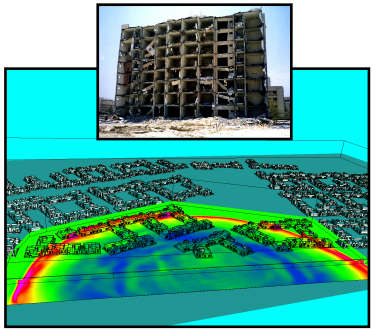
Rapid Mapping

Logistics Over the Shor



Bridge Assessment and Repair

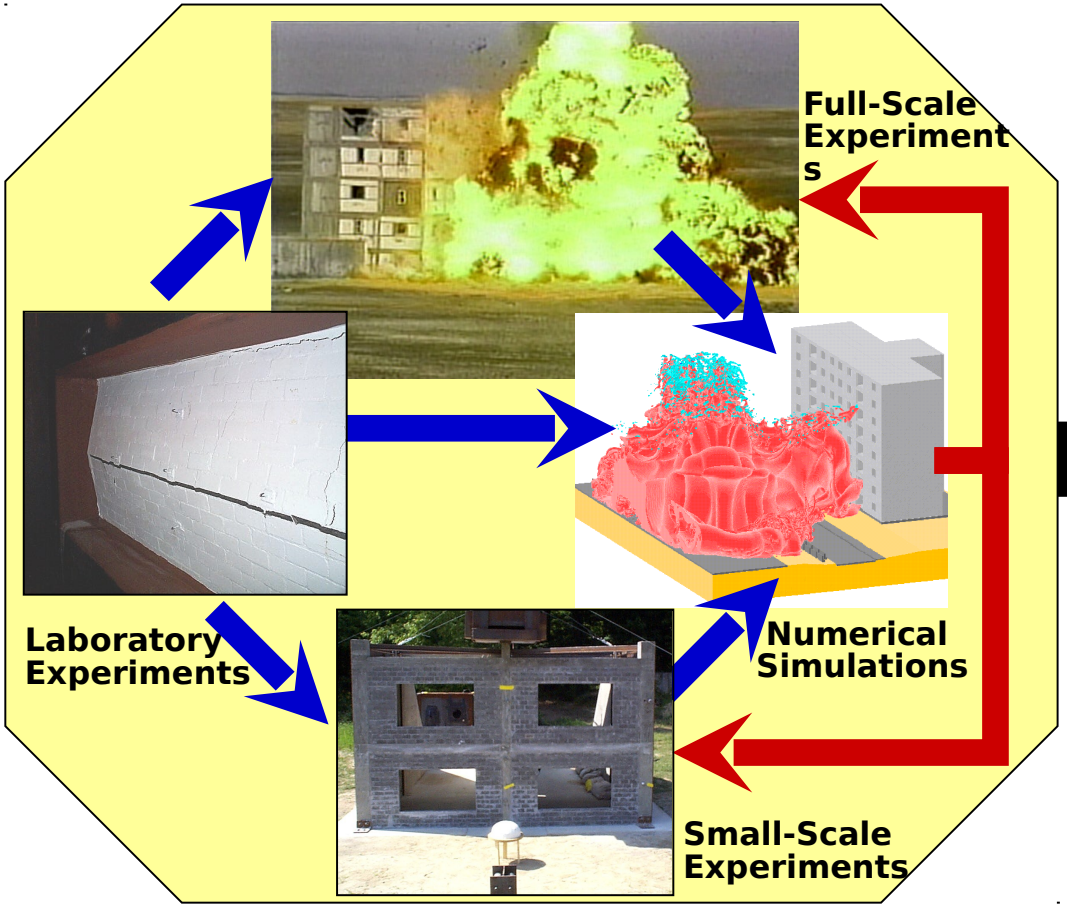
Force Protection



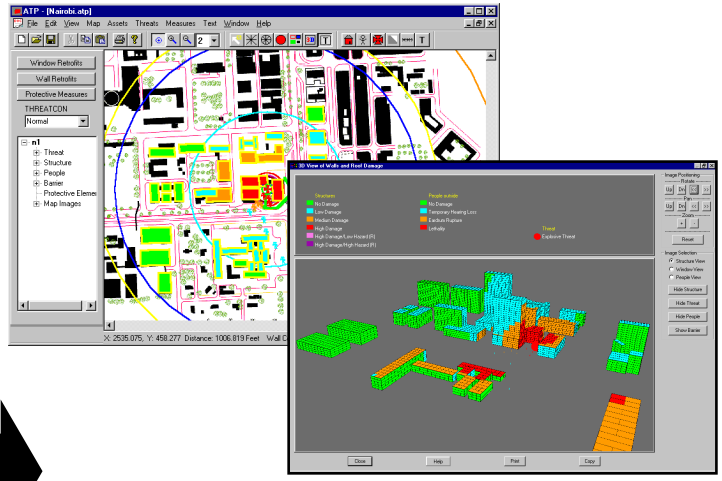
Support to the Army and the Nation

Force Protection Capabilities

Research



Products



Force Protection Planning (AT Planner)

Without Retrofit

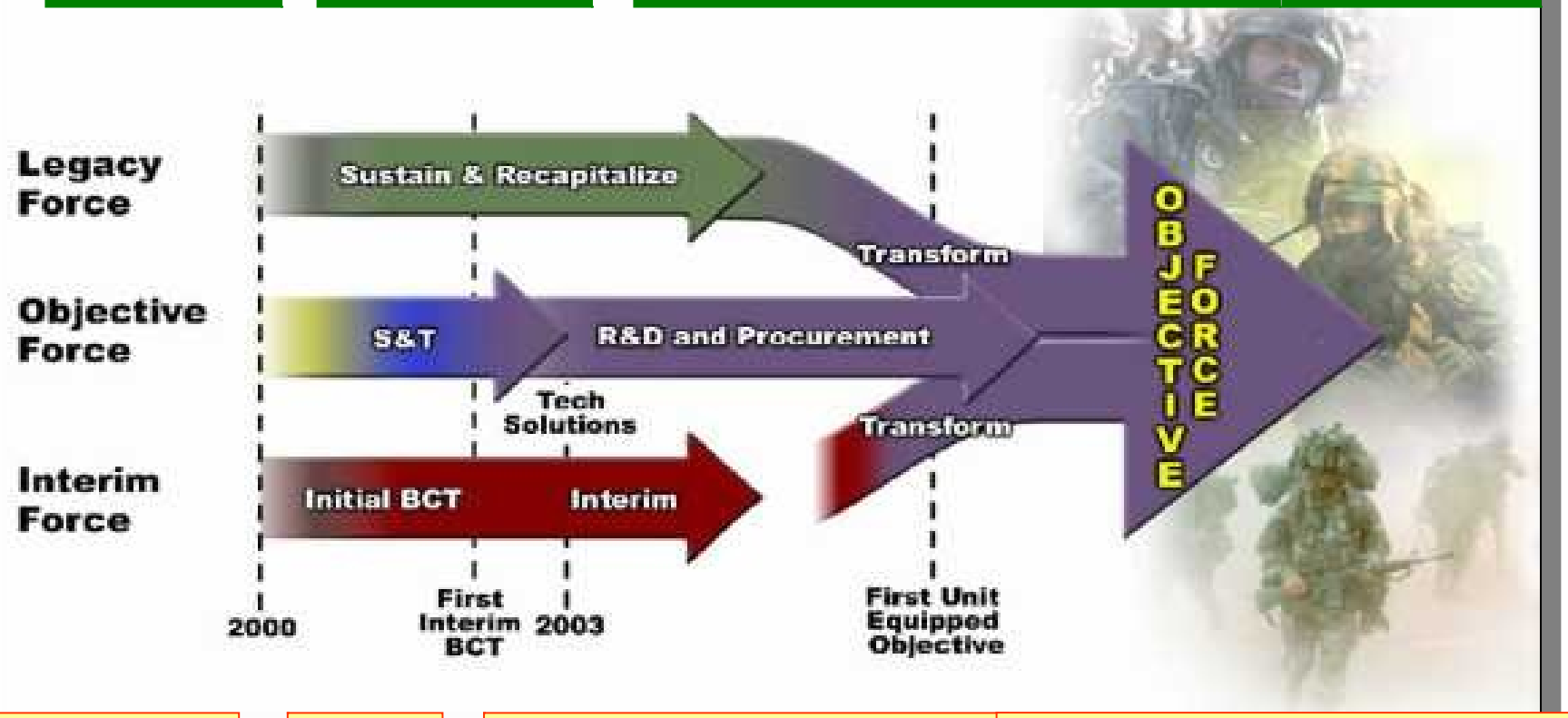
With Retrofit

Design/Retrofit Procedures

Engineer Support to the Warfighter

USACE - Essential to Army Transformation

Ranges | Barracks | Maintenance Facilities | Housing



Doctrine | R&D | Engineer Services | Environmental Studies

Responsive, Deployable, Agile, Versatile, Lethal, Survivable, Sustainab

Support to Army Transformation

Objective Force Installations

Installations Today

- Clear Separation between Fort and local community
- Distinct, Stand-alone facilities
- Decentralized facilities planning, acquisition and O&M

A Paradigm Shift

CALL ON USACE MASTER PLANNING CAPABILITIES

Fort Future

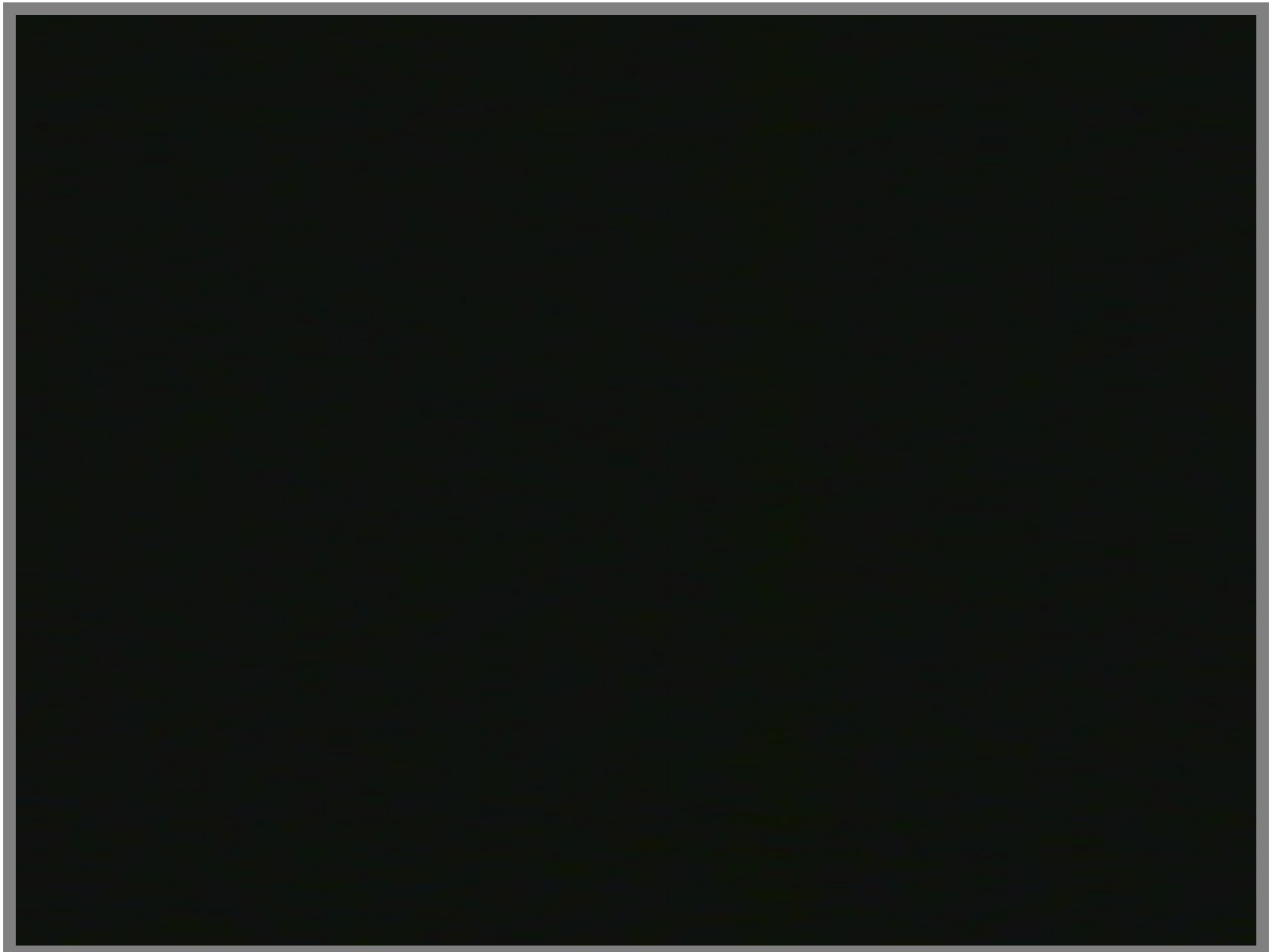
- Installation-Community boundaries blur?
- Multi-purpose, interdependent facilities?
- More centralized approach to facilities management?
- New forces and

Transformation Teamwork

- Seattle District
- Fort Lewis Director of Public Works
- 555th Engineer Group
  - 864th Engineer Battalion

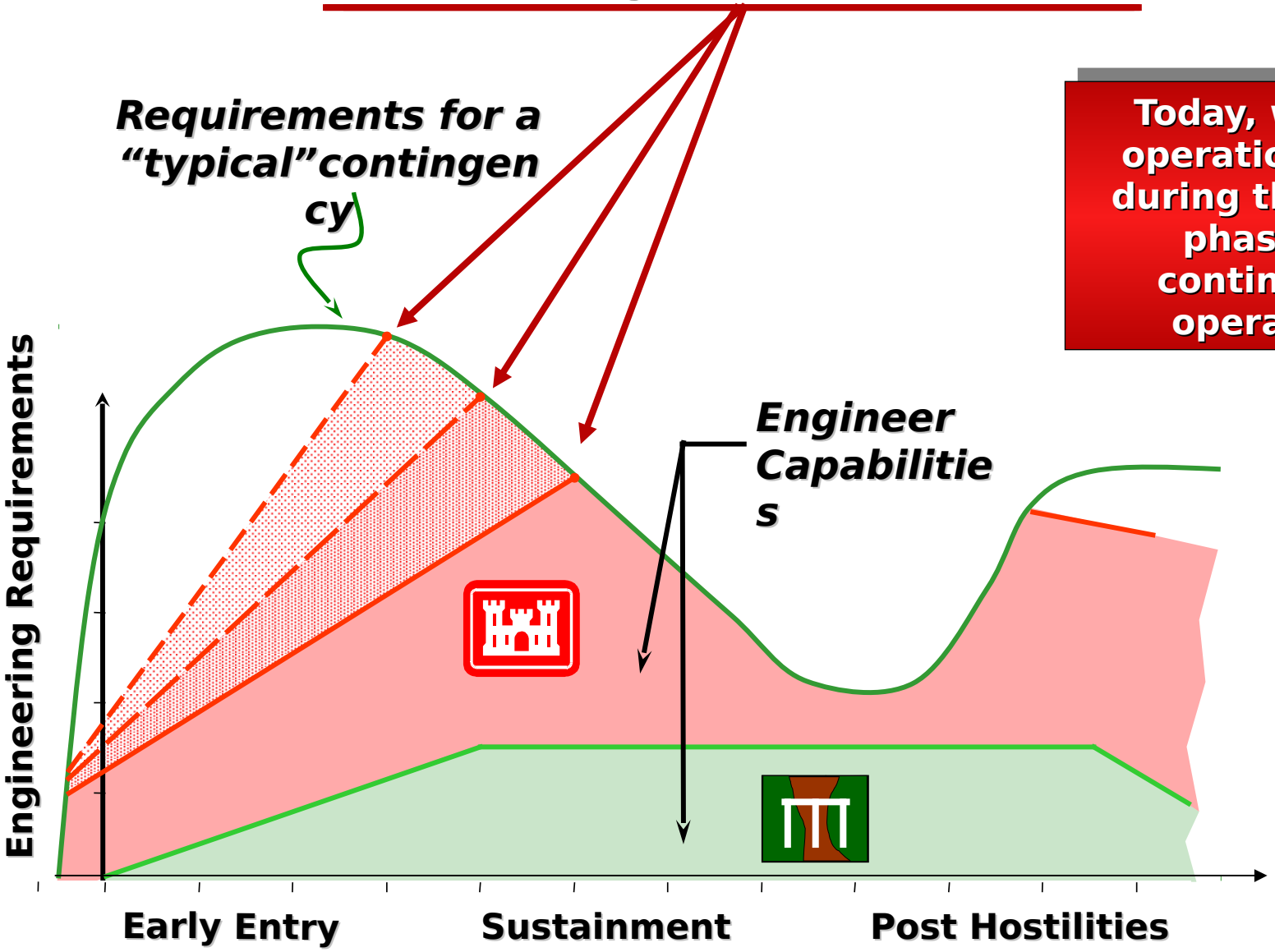
Vignette - Support to the Warfighter

Transformation Teamwork



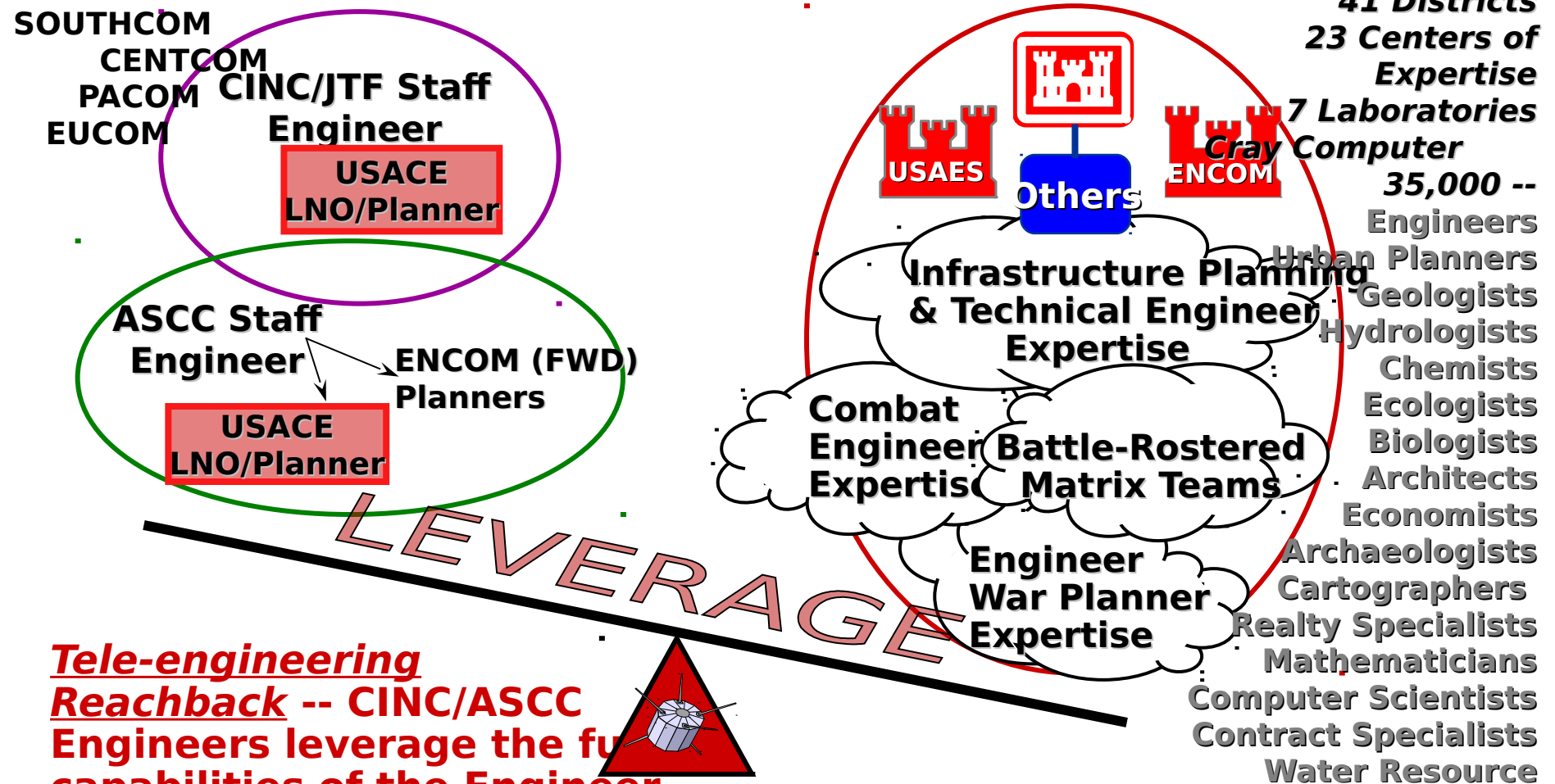
Engineer Support to the Warfighter

The Challenge: Meet the Curve



Engineer Support to the Warfighter

Field Force Engineering – Leveraging the Regiment



Tele-engineering Reachback **-- CINC/ASCC Engineers leverage the full capabilities of the Engineer Regiment real time --** ***virtually***

41 Districts
23 Centers of Expertise
7 Laboratories
Cray Computer
35,000 --
Engineers
Urban Planners
Geologists
Hydrologists
Chemists
Ecologists
Biologists
Architects
Economists
Archaeologists
Cartographers
Realty Specialists
Mathematicians
Computer Scientists
Contract Specialists
Water Resource Planners
Physical Scientists

Engineer Support to the Warfighter

Tele-Engineering Communications System

Second Generation Deployable System

Engineer Support to the Warfighter

Leveraging the Regiment

Camp Bondsteel:
Company Assembly Area, Jul 99

Engineer Support to the Warfighter

Leveraging the Regiment

Engineer Support to the Warfighter

Leveraging the Regiment

"In my confirmation hearing with this committee I mentioned Camp Bondsteel in Kosovo where our GIs are stationed. As you know, it is a superb, first-class facility put in overnight to make sure that our troops are taken care of…. if you visited some of our dilapidated embassies and other facilities in the region, you would wonder whether the same government was taking care of them."

-- SecState Colin Powell
in testimony to Congress

Camp Bondsteel:
Mission Complete, Oct

Takeaways

U S A r m y C o r p s
o f E n g i n e e r s ®

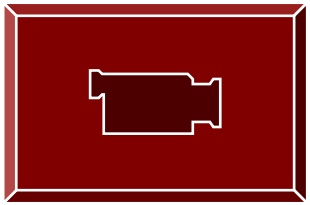
We are:

- **Trained and Ready - Supporting the Warfighter**
- **Essential to the Transformation**
- **Sustaining and Building Relationships – Army and the Nation**
- **Providing Solutions Today**
- **Globally Deployed - A Vital Part of Engagement**
- **Connecting America to its Army**
- **Talented - Dedicated - Unique**

Indispensable

Gov. Ridge Vignette

Governor Tom Ridge is sworn in as the first Director of Homeland Security



Over Two Centuries of Service to the Army and the Nation

1775 - Congress Establishes Corps of Engineers

1884 - Construction of Washington Monument

1941 – Pentagon Construction

1960 to present - Infrastructure Development in Middle East

Still Engaged…

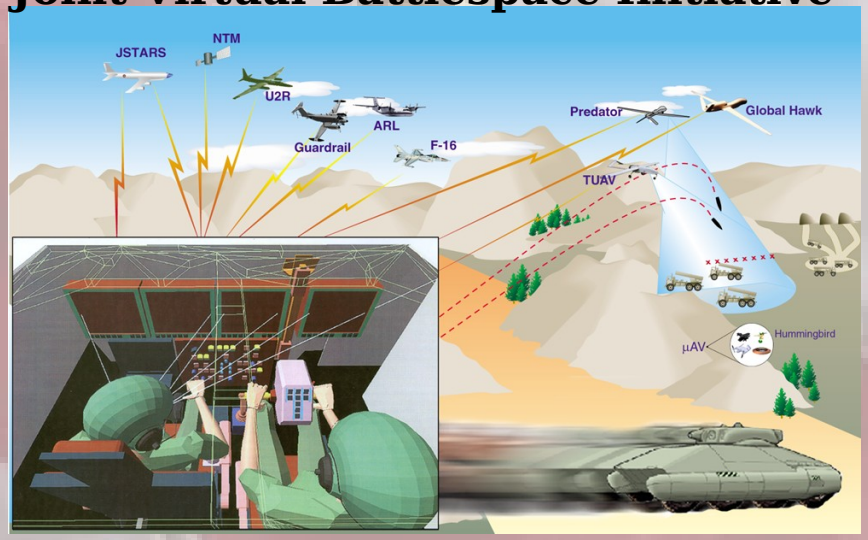
National Missile Defense

Homeland Security

Fissile Material Storage Facility, Ukrai

National Security Strategy

Joint Virtual Battlespace Initiative



Leading Edge Research

…And Still Relevant

One Corps

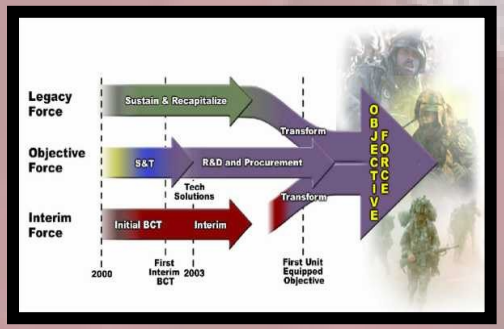
Indispensable

To

The Army

The Nation

Our Transformation



Questions & Answers